Page 2

June-05-12 9:11:59 AM D412-758-015 Item ID: Accept \*N900040100\* Setup Start **Revision ID:** GPSMAP Top Mounted GPS Receiver Gimbal Mount Item Name: **Start Date:** 05/06/2012 Start Oty: 2.00 **Cust Item ID: Required Date:** 19/06/2012 Req'd Qty: 2.00 **Customer:** Reference: Run Process Plan: Approvals: Date: Tooling: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 120 0.00 Packaging \*120\* Packaging 0.00 Memo Packaging Identify and pack for shipping as per PPP D412-758-015 Location: PPP Rev: 130 QC21- Final Inspection - Work Order Release 0.00 \*130\* MF 17-09-13 QC 0.00 Memo Quality Control

## **Picklist Print**

June-05-12 9:12:03 AM

Work Order ID: 85253

\*85253\*

Parent Item:

D412-758-015

Parent Item: D412-758-015 \*D412-758-015\*

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Start Date: 05/06/2012

Required Date: 19/06/2012

Page 1

Start Qty: 2.00

Required Qty: 2.00

Comments:	IPP rev:A 10.06.21	new issue DI	D veri	fied by:EC			i.						
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3531-041		Manufactured	No		<del>-</del>	110	Each	0.0000	(-1	2	/2	/2/13	
*D3531-0	41*								**		342	86 \$	
Bracket Assembly 302464		Manufactured	No			110	f	583.6406	1.05	2.21052	B9	14637	
*D2464*							•	303.0100	**	2.21052	0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,	
3/4 Seal										-	<del>}</del> 9-		
_	*			<b>Location</b>		<u>Loc</u>	<u>Qty</u>	Loc Code			V		
_	wes .			ST404			.6406		_		_	$\mathcal{L}$	- 2
-7°	57/14/26				61878	83	.6406		-	01 21	-a	AN	
cult qty of 2 at 6.6" as per d	0.4	er			83543		500	-2.0		9354	9	SY	
kit*** D3525-1		Manufactured	No			110	E. d	0.0000	<u> </u>			ı	<b>(</b> )
1	L ''	ivialiulactured	140			110	Each	8.0000		2			
*D3525-1	•					- 4			**		23	<b>1</b>	<i>(</i>
Placard											0		
				<b>Location</b>		Loc	<u>Oty</u>	Loc Code					
				ST053			8		-		•		
D20151 -1				•	81318		8			8 <i>  3</i> /4	2		
D3645-1	÷	Manufactured	No			110	Each	32.0000	(4)	8 2	/		:
*D3645-1*	*								**		2B	12	106/24
Washer				_							0	Á	7.5
				<b>Location</b>		Loc	<u>Qty</u>	Loc Code					
	à			ST059			32			2 4 1	3		
					35024		12		-A204 5	35024	7		

20

35025

NCR: Yes / No	WORK ORDER NON-CO	ONFORMANCE / UPDATE	DQA:	Date:
		ONVIANCE / OPDATE	QA Closed:	, Date:
Work Order:	DISPOSITION	AGAINS	ST DEPARTMENT/PROC	
Part No	Rework Scrap Use-as-is Work Order Update	Skid-tube Crosstub  Machining Small Fa  Thermoforming Finishin  Large Fab Composit	Prod. Eng Rec/Store/Pac	. Coor. Engineering
Cause Date Step Qty Doc/Data		Initial Action hief Eng Description	Sign & Date Veri	fication QC Inspector
Equip/Tooling Operator Material Offset/Setup Other Process Supplier Training Unauthorized				
Landing Gear		LT CATEGORY		
Bending Passes Below Min Centre Not Concentric to O/S Cracks Crushed/Crimp at Bending Inspection Strip in Tube Other Positioned Wrong Ripples on Inner Bend Torque Waves in Extrusion Turning Sequence	Missing Size/Length Spinning Threading Wrong Drill Holes Misaligned Ovalized	General Burrs Contamination Cut Too Short Documentation/Data Finish Inspection Incomplete Inspection Unqualified Instructions Incomplete/Unclear Jigs/Fixtures/Tooling Kit Incorrect	Maintenance Mislabeled Off-Set Orientation Misread Out of Calibration Out of Sequence Outside Dimensions Over/Under tolerance Part Moved	Set-up Supplier Temperature/Cure Weld Wrong Stock Pulled Other
Wave/Twist in Tube  1:/FORMS/Quality Assurance\approved OA/NCRWO Rev.E	╗ <u>+</u> ├─┤	Kit Missing	Part Moved Raw Material	

DQA:

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev F

June-05-12 9:12:03 AM

Work Order ID: 85253

\*85253\*

Parent Item:

AN525-10R7

D412-758-015

Parent Item: D412-758-015 \*D412-758-015\*

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Purchased

NAS1149D0363J Purchased

Purchased

Start Date: 05/06/2012

\*\*

Required Date: 19/06/2012

Required Qty: 2.00

Start Qty: 2.00

242.0000

Location Loc Qty Loc Code ST345 242 115371 7 118686 100 120833 2 121390 133 110 Each

110

Each

Each

Each

Purchased

No

No

No

No

Location Loc Oty Loc Code ST298 200 118428 200

110

110

0.0000

232.0000

200.0000

Location Loc Qty Loc Code ST300 232 118354 2 119109 119758 121444 128 121556 100

**Shop Packet Print** 

Material Offset/Setup Other Other Process Supplier Training Unauthorized FAULT CATEGORY  Landing Gear Hardware General  Bending Passes Below Min Breaking Size/Length Contamination Mislabeled Supplier Cracks Size/Length Contamination Mislabeled Supplier Crushed/Crimp at Bending Spinning Documentation/Data Orientation Misread Weld Inspection Strip in Tube Threading Wrong Inspection Incomplete Out of Sequence						DQA:	Date:	
DISPOSITION   Rework   Scrap   Use-as-is   Work Order Update   Use-as-is   U	NCR: Yes / No	<b>WORK ORDER NON-C</b>	ONFO	RMANCE / UPDATE				•
Part No.   Scrap   Use-as-is   Work Order Update   Use-as-is   U						QA Closed:	Date:	
Part No.	Work Order	DISPOSITION		AGAINST	ΓĎΕ	PARTMENT,	/PROCESS	
Part No.	Work Order.	Rework		Skid-tube Crosstube		] Pro	d. Eng. Coor.	Engineering
Root Cause Date Step Qty or Non-conformance Chief Eng Description Doc/Data Equip/Tooling Operator Other Operator Other O	Part No.					4		
Root Cause Date Step Qty Description of work order update or Non-conformance Chief Eng Description Date Verification QC Inspector Doc/Data Capiup/Tooling Qperator Description Description Description Date Verification QC Inspector Description Date Description Date Description Date Description QC Inspector Description Date Description Date Description Date Description QC Inspector Description Date Date Date Date Date Description Date Description Date Date Date Date Date Date Date Date		I —	The	~ ~ · · · · · · · · · · · · · · · · · ·	_		· · · -	
Cause	NCR No.	Work Order Update		Large Fab Composite		]	Other	
Cause	Day.	nintian af work and a wadeta. I	Initial	Action		Cian 0		1
Doc/Data   Capuip/Tooling   Capuip/Tooli		•					Verification	OC Inspector
Equip/Tooling Operator Material Offset/Setup Other Other Other Training Onauthorized FAULT CATEGORY  Landing Gear Hardware General  Bending Passes Below Min Ochre		or won comormance	OTTICE ET	6 2007,000			· · · · · · · · · · · · · · · · · · ·	<u> </u>
Material Offset/Setup Other Other Process Supplier Training Unauthorized FAULT CATEGORY  Landing Gear Hardware General  Bending Passes Below Min Breaking Size/Length Contamination Mislabeled Supplier Cracks Size/Length Contamination Mislabeled Supplier Crushed/Crimp at Bending Spinning Documentation/Data Orientation Misread Weld Inspection Strip in Tube Threading Wrong Inspection Incomplete Out of Sequence							4.0	
Offset/Setup Other Process Supplier Training Unauthorized    Bending Passes Below Min   Breaking   Burrs   Centre Not Concentric to O/S   Missing   Contamination   Mislabeled   Supplier   Cracks   Size/Length   Cut Too Short   Off-Set   Temperature/Cure   Crushed/Crimp at Bending   Spinning   Documentation/Data   Orientation Misread   Weld   Weld   Inspection Strip in Tube   Threading   Inspection Incomplete   Out of Sequence	Operator							
Other Process Supplier Training Unauthorized  Landing Gear Bending Passes Below Min Centre Not Concentric to O/S Cracks Cracks Cracks Crushed/Crimp at Bending Inspection Strip in Tube Other Wrong  Naintenance Set-up Contamination Mislabeled Supplier Cut Too Short Off-Set Off-Set Temperature/Cure Documentation/Data Finish Out of Calibration Wrong Stock Pulled Out of Sequence	Material							
Process Supplier Training Unauthorized  Training Unauthorized  Training Unauthorized  Training Unauthorized  Training Unauthorized  FAULT CATEGORY  FAULT CATEGORY   Landing Gear  Hardware  General  Bending Passes Below Min Centre Not Concentric to O/S Missing Contamination Mislabeled Supplier Cracks Cracks Size/Length Cut Too Short Off-Set Temperature/Cure Crushed/Crimp at Bending Inspection Strip in Tube Inspection Strip in Tube Wrong Inspection Incomplete Out of Sequence	Offset/Setup							
Supplier Training Unauthorized    FAULT CATEGORY	Other			\.				
Training Unauthorized	Process							
Training Unauthorized FAULT CATEGORY  Landing Gear Hardware General  Bending Passes Below Min Breaking Burrs Mislabeled Supplier  Centre Not Concentric to O/S Missing Contamination Mislabeled Supplier  Cracks Size/Length Cut Too Short Off-Set Temperature/Cure  Crushed/Crimp at Bending Spinning Documentation/Data Orientation Misread Weld  Inspection Strip in Tube Threading Finish Out of Calibration Wrong Stock Pulled  Other Wrong Inspection Incomplete Out of Sequence	Supplier						i	4 4
Landing Gear	Training			,			1	
Landing Gear    Bending Passes Below Min	Unauthorized						<u> </u>	
Bending Passes Below Min Centre Not Concentric to O/S Cracks Crushed/Crimp at Bending Inspection Strip in Tube Other  Breaking Burrs Contamination Contamination Contamination Mislabeled Supplier Contamination Mislabeled Supplier Cut Too Short Off-Set Temperature/Cure Cut Too Short Orientation Misread Weld Finish Out of Calibration Wrong Stock Pulled Other		<u> </u>	ULT CAT					
Centre Not Concentric to O/S Missing Contamination Mislabeled Supplier Cracks Size/Length Cut Too Short Off-Set Temperature/Cure Crushed/Crimp at Bending Spinning Documentation/Data Orientation Misread Weld Inspection Strip in Tube Threading Finish Out of Calibration Wrong Stock Pulled Other Wrong Inspection Incomplete Out of Sequence	1		<b>-</b>	General		1		1.
Cracks Size/Length Cut Too Short Off-Set Temperature/Cure Crushed/Crimp at Bending Spinning Documentation/Data Orientation Misread Weld Inspection Strip in Tube Threading Wrong Inspection Incomplete Out of Sequence	1 <del>1 1</del>	<del></del>		h. n. **	-	4	ce	
Crushed/Crimp at Bending Spinning Documentation/Data Orientation Misread Weld Inspection Strip in Tube Other Urong Urong Inspection Incomplete Out of Calibration Out of Sequence	i 1	<del> </del>	—		-	4		
Inspection Strip in Tube Other Threading Wrong Finish Out of Calibration Out of Sequence Out of Sequence	<del>   </del>	<b>⊣</b> ' ' ⊢			-	4	Naisensed -	· ·
Other Wrong Inspection Incomplete Out of Sequence		<del></del>	<u> </u>		$\vdash$	4		4
	1 1		- 11				<u></u>	Jwyrong Stock Pulled
I Docitioned Mirang Drill Halos I Inspection Unqualitied I Dutaide Dimensions I 10ther	Positioned Wrong			Inspection Incomplete Inspection Unqualified				Other
Positioned Wrong Drill Holes Inspection Unqualified Outside Dimensions Other Ripples on Inner Bend Misaligned Instructions Incomplete/Unclear Over/Under tolerance		<del></del>			$\vdash$	4	<u> </u>	Other
Torque Waves in Extrusion Ovalized Jigs/Fixtures/Tooling Part Lost	!	<b></b>		· ·	$\vdash$	-1		

Kit Incorrect

Kit Missing

Part Moved

Raw Material

Turning Sequence

Wave/Twist in Tube

Over/Undersized

Too Many

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev F

June-05-12 9:12:03 AM

Work Order ID: 85253

\*85253\*

Parent Item:

D412-758-015

Parent Item: D412-758-015 \*D412-758-015\*

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

Purchased

Start Date: 05/06/2012

Required Date: 19/06/2012

Start Qty: 2.00

Required Qty: 2.00

MS24693-S29

Location ST288 103915 Loc Oty 76

Loc Oty

Each

Loc Code

76.0000

RAM-B-201U-A

Purchased

No

No

No

76 110 Each

110

8.0000

Loc Code

03915

RAM-B-202U

Purchased No

Purchased

121391

Location

ST396

110 Each

8.0000 \*\*

Round Plate Mount, Single 1" Ball

Location ST396

121391

Loc Qty 8 110 Each Loc Code

13.0000

\*\*

Location Loc Qty Loc Code ST382 120639 ST396 121307 121391

121391

• June-05-12 9:12:03 AM

Work Order ID: 85253

\*85253\*

No

Parent Item:

MS21042L3

D412-758-015

Parent Item: D412-758-015 \*D412-758-015\*

Parent Item Name: GPSMAP Top Mounted GPS Receiver Gimbal Mount

110

Purchased

Start Date: 05/06/2012

**Required Date:** 19/06/2012

JB 12/06/26

Start Qty: 2.00

Required Qty: 2.00

2,157.000

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Loc Qty	Loc Code	
2157		
32		71-1
952		
138		
215		
820		121444
	2157 32 952 138 215	2157 32 952 138 215

Each

## DART AEROSPACE LTD.



5.0 PARTS\_LIST

QTY	QTY	QTY	1	0
-011	-013	-015	Part Number	Description
Х			D412-758-011	Bottom Mounted GPS Receiver Gimbal Mount
	X		D412-758-013	Top Mounted GPS Receiver Gimbal Mount
		Х	D412-758-015	GPSMAP Top Mounted GPS Receiver Gimbal Mount
1			D3514-041	Bottom Mounted Gimbal Assembly
	1		D3514-043	Top Mounted Gimbal Assembly
		1	D3531-041 >	Bracket Assy.
	2 /	2	D2464-0066	Neoprene Seal
1_	1 7	1	D3525-1	Placard
1			D3527-1	Support Arm
1			D3530-1	Base Plate
1			D3530-3	Mounting Plate
1	1		D3534-1	Doubler
	4 ,	4	D3645-1 >	Washer ·
	<u> </u>	<del> </del>	ANIFOC AODZ	Screw
	4	7	AN525-10R7	
3	ļ		AN526-632R7	Screw (or MS35206-229)
3		4	AN960JD6	Washer
2	4-	7	AN960JD10	Washer
3		4 4	MS21042L06	Nut
1_	ļ	3	MS21042L3 /	Nut
4	4	ļ	MS24693-S27	Screw
1	ļ		MS27039-1-09	Screw
		4	MS24693-S29/	Screw
		/ 2	RAM-B-201U-A /	Socket Arm, 1.75"
	<del>                                     </del>	1_2_	_RAM-B-202U	Round Plate Mount, Single 1" Ball
	<del> </del>	71	RAM-B-217U	Round Plate Mount, Dual 1" Ball
		1	10 1110	Treated Field Product South
	-	-		
		<del> </del>		
	-	+		
	1		<u></u>	<u> </u>

